

## Polymer Resources AH-GP1-[color]-H Acetal Homopolymer, Low Flow, High Melt Strength, Heat Stabilized

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Unreinforced

### Material Notes:

Process: Molding or Extrusion Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Information provided by Polymer Resources Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polymer-Resources-AH-GP1-color-H-Acetal-Homopolymer-Low-Flow-High-Melt-Strength-Heat-Stabilized.php](http://www.lookpolymers.com/polymer_Polymer-Resources-AH-GP1-color-H-Acetal-Homopolymer-Low-Flow-High-Melt-Strength-Heat-Stabilized.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.018 - 0.021 cm/cm	0.018 - 0.021 in/in	ASTM D955
Melt Flow	1.0 - 3.0 g/10 min	1.0 - 3.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	67.6 MPa	9800 psi	ASTM D638
Tensile Strength, Yield	67.6 MPa	9800 psi	ASTM D638
Flexural Strength	94.80 MPa	13750 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm	2.20 ft-lb/in	ASTM D256
Gardner Impact	>= 22.6 J	>= 16.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	164 °C	327 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	215 °F	ASTM D648
Flammability, UL94	HB	HB	1/16 in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	193 - 204 °C	380 - 400 °F	
Middle Barrel Temperature	196 - 207 °C	385 - 405 °F	
Front Barrel Temperature	199 - 210 °C	390 - 410 °F	

<b>Melt Temperature Processing Properties</b>	<b>199 - 210 °C Metric</b>	<b>390 - 410 °F English</b>	<b>Comments</b>
Mold Temperature	79.4 - 98.9 °C	175 - 210 °F	
Drying Temperature	76.7 - 82.2 °C	170 - 180 °F	
Dry Time	2 - 4 hour	2 - 4 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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